CLAIMS

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- 1. An eye image pick-up system for picking up an image of an eye by using an objective lens and an imaging device, said system comprising:
- a mirror portion provided between the objective lens and the imaging device, for turning an optical path of an optical system;
 - a light source provided at a back of the mirror portion on a prolonged line of the optical axis that extends from the objective lens to the mirror portion in the optical path, for emitting a visible light; and
 - a light guiding means provided to the mirror portion, for guiding the visible light from the light source to an objective lens side;

wherein the light guiding means is constructed by translucent members that are provided concentrically round the optical axis.

- The eye image pick-up system according to claim 1, wherein the light guiding means has a circular-ring translucent portion formed round the optical axis on a reflecting surface of the mirror portion.
- 3. The eye image pick-up system according to claim 1, wherein the light guiding means has a plurality of translucent portions formed on a reflecting surface of the

mirror portion and arranged on a circle round the optical axis.

- 4. The eye image pick-up system according to claim 3, wherein the plurality of translucent portions of the light guiding means are formed of a plurality of triangular translucent portions that are aligned at an equal angle on a circle round the optical axis to direct respective sharp angles to the optical axis.
- 5. The eye image pick-up system according to claim 3, wherein the plurality of translucent portions of the light guiding means are formed of a plurality of arrowshaped translucent portions that are aligned at an equal angle on a circle round the optical axis to direct respective pointed portions to the optical axis.
 - 6. The eye image pick-up system according to claim 3, wherein the light guiding means has a plurality of circular-ring or circular translucent portions that are formed concentrically round the optical axis on a reflecting surface of the mirror portion, and

wherein the light source has a plurality of light sources at least adjacent light sources of which emit lights in different colors to the plurality of translucent portions.

7. The eye image pick-up system according to claim 1, wherein the light guiding means has a plurality of circular-ring or circular translucent portions that are formed concentrically round the optical axis on a reflecting surface of the mirror portion,

wherein the translucent portions are formed of colored translucent portions at least adjacent translucent portions of which pass through lights in different colors, and

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- wherein the light source has a white light source that emits a light to the plurality of translucent portions.
 - 8. The eye image pick-up system according to any one of claims 1 to 5,

wherein the light guiding means has translucent portions formed of openings that are formed on a reflecting surface of the mirror portion.

- 9. The eye image pick-up system according to claim 1, wherein the mirror portion is molded with resin material on one surface of which a reflecting surface is formed, and
- wherein the light guiding means has a plurality of translucent portions formed of openings that are aligned on

a circle round the optical axis on a reflecting surface of the mirror portion.

- The eye image pick-up system according to claim 1, wherein the mirror portion has a holding portion that is provided to communicate with the openings and holds the light source.
- 11. The eye image pick-up system according to any one of claims 1, 2, 3, 8 and 9,

wherein the light source has a plurality of color light sources that emit a light in different colors respectively, and

said system further comprising:

- a focusing deciding means for deciding a focused condition of the image of the eye picked up by the imaging device; and
- a light emission controlling means for controlling light emitting times of the light sources in respective colors based on a decision result of the focused condition.
 - 12. The eye image pick-up system according to claim 3 or claim 9, further comprising:
 - a focusing deciding means for deciding a focused condition of the image of the eye picked up by the imaging device; and

a light emission controlling means for changing a number of lights that pass through the plurality of translucent portions of the light guiding means, in response to a decision result of the focused condition.

- 13. An eye image pick-up system according to claim 3 or claim 9, further comprising:
- a focusing deciding means for deciding a focused condition of the image of the eye picked up by the imaging device; and
- a light emission controlling means for changing positions of lights that pass through the plurality of translucent portions of the light guiding means, in response to a decision result of the focused condition.
- 14. The eye image pick-up system according to any one of claims 1, 2, 3, 8 and 9,

wherein the light source the light source has a plurality of color light sources that emit a light in different colors respectively, and

said system further comprising:

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an image discriminating means for discriminating to which one of right and left eyes the eye the image of which is picked up by the by the imaging device corresponds; and

a light emission controlling means for changing a color of a light emitted from the light source in response

to a decision result of the focused condition.